

Form PTO-1449ion

Farrell G. Badger et al.

For: EXPLOSIVE DEVICE WITH ACCELERATED
BIOREMEDIATION CAPACITY

Divisional of:

Serial No.: 10/039,137
 Of: Farrell G. Badger, et al.
 Filing Date: December 31, 2001
 Examiner: Peter A. Nelson
 Art Unit: 3641

INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTU.S. Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Issue Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub Class</u>	<u>Filing Date</u>
JB A1	2,330,110	09/21/43	Buchan	166	21	10/31/41
A2	3,157,119	11/17/64	Porter	102	21.8	01/27/61
A3	3,710,718	01/16/73	Grant	102	23	02/04/71
A4	4,016,117	04/05/77	Griffin	260	17.4	11/25/74
A5	4,044,684	08/30/77	Gaggini et al.	102	90	07/13/76
A6	4,064,941	12/27/77	Smith	166	300	08/02/76
A7	4,108,728	08/22/78	Spinner et al.	195	127	07/28/76
A8	4,351,729	09/28/82	Witt	210	603	02/06/80
A9	4,365,557	12/28/82	Couture et al.	102	341	09/22/80
A10	4,826,601	05/02/89	Spratt et al.	210	610	08/01/86
A11	4,845,034	07/04/89	Menger et al.	435	167	01/06/86
A12	4,919,813	04/24/90	Weaver	210	603	08/25/89
A13	4,925,552	05/15/90	Bateson et al.	210	150	05/12/88
A14	4,929,552	05/29/90	Gold et al.	435	128	11/17/89
A15	4,961,381	10/09/90	McLaughlin	102	319	05/12/89
JB A16	4,968,427	11/06/90	Glanser et al.	210	610	05/01/89

continued . . .

Examiner: /James Bergin/ Date Considered: 10/13/2006

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U.S. Patent Documents . . . continued

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JB	A17	5,011,614	04/30/91	Gresser et al.	210	761	04/20/89
	A18	5,062,956	11/05/91	Lupton et al.	210	611	03/20/90
	A19	5,071,755	12/10/91	Nelson et al.	210	611	07/09/90
	A20	5,085,998	02/04/92	Lebron et al.	435	262	05/07/91
	A21	5,120,441	06/09/92	Jackson et al.	210	602	05/30/90
	A22	5,139,365	08/18/92	Chesner	405	129	09/04/90
	A23	5,139,776	08/18/92	Chazono et al.	424	92	02/03/89
	A24	5,296,146	03/22/94	Jackson et al.	210	602	06/08/92
	A25	5,302,285	04/12/94	Attaway et al.	210	605	09/20/93
	A26	5,314,821	05/24/94	Tyndall	435	252.1	02/01/93
	A27	5,370,845	12/06/94	Miller et al.	422	186.3	08/30/91
	A28	5,387,271	02/07/95	Crawford et al.	71	9	07/23/93
	A29	5,392,860	02/28/95	Ross	166	376	03/15/93
	A30	5,414,198	05/09/95	Broadman et al.	588	202	08/12/94
	A31	5,420,035	05/30/95	Tyndall	435	252.1	02/28/94
	A32	5,449,618	09/12/95	Tyndall et al.	435	262.5	12/16/93
JB	A33	5,455,173	10/03/95	Crawford et al.	435	264	04/18/94

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*continued...*U.S. Patent Documents...continued

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JB	A34	5,478,743	12/26/95	Perkins et al.	435	262.5	03/11/94
	A35	5,484,730	01/16/96	Tyndall et al.	435	264	02/21/95
	A36	5,511,482	04/30/96	DiPietropolo	102	426	07/11/94
	A37	5,518,919	05/21/96	Tyndall	435	262.5	02/15/95
	A38	5,543,324	08/06/96	Rajan et al.	435	252.4	02/28/95
	A39	5,578,487	11/26/96	Tyndall	435	262.5	05/19/95
	A40	5,578,488	11/26/96	Tyndall et al.	435	262.5	11/26/96
	A41	5,593,888	01/14/97	Glaze et al.	435	262.5	04/05/94
	A42	5,610,062	03/11/97	Tyndall	435	252.4	05/19/95
	A43	5,616,162	04/01/97	Crawford et al.	71	9	10/20/95
	A44	5,711,020	01/20/98	Wolfe et al.	588	203	04/16/96
	A45	5,736,669	04/07/98	Thomas et al.	102	293	06/04/96
	A46	5,763,736	06/09/98	Daume	588	203	04/10/97
	A47	5,763,815	06/09/98	Thomas et al.	102	293	06/04/96
JB	A48	5,814,514	09/29/98	Steffan et al.	435	262	07/10/96
JB	A49	5,849,984	12/15/98	Kim et al.	588	203	05/14/97

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JB A50	5,928,859	07/27/99	Nicklin et al.	435	4	02/02/88
A51	6,051,420	04/18/00	Radtke et al.	435	262.5	05/20/98
A52	6,066,772	05/23/00	Hater et al.	588	202	08/28/98
A53	6,084,150	07/04/00	Crawford et al.	588	244	02/12/97
A54	6,120,627	09/19/00	Badger et al.	149	108.8	10/18/96
A55	6,121,506	09/19/00	Abel et al.	588	200	06/10/99
A56	6,274,368	08/14/01	Nicklin et al.	435	252.1	12/23/98
A57	6,334,395	01/01/02	Badger et al.	102	292	05/30/97
A58	6,334,954	01/01/02	Crawford et al.	210	610	06/05/00
A59	6,348,639	02/19/02	Crawford et al.	588	244	06/06/00
JB A60	2002/0078849	06/27/02	Badger et al.	102	293	12/31/01

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Farell G. Bridger

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Foreign Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Pub. Date</u>	<u>Country or Patent Office</u>	<u>Sub Class</u>	<u>Class</u>	<u>Trans-lation</u>	
JB	A61	251,320	01/07/88	Europe	C02F	3/34	N/A
	A62	512,660	11/11/92	Europe	A62D	3/00	Yes
	A63	3,818,398	12/14/89	Germany	A01B	79/00	Yes
	A64	4,141,940	12/23/93	Germany	F42D	5/04	Yes
	A65	1,396,372	06/04/75	Great Britain	C06B	31/00	N/A
	A66	8,602,985	06/16/88	Netherlands	B09B	3/00	Yes
	A67	WO 91/15440	10/17/91	PCT	C05F	11/08	N/A
	A68	WO 95/01311	01/12/95	PCT	C02F	3/34	Yes
↓	A69	WO 95/03259	02/02/95	PCT	C05F	11/08	N/A
JB	A70	2,039,251	07/09/95	Russia	E21C	37/00	Yes

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Other DocumentsExaminer
Initial*

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|----|-----|---|
| JB | A71 | Berry, D.F., et al., <i>Microbial Metabolism of Homocyclic and Heterocyclic Aromatic Compounds Under Anaerobic Conditions</i> , 51(1) MICROBIOL. REV. 43-59 (Mar. 1987). |
| | A72 | Boopathy, R., et al., <i>Biological Transformation of 2, 4, 6 - Trinitrotoluene (TNT) By Soil Bacteria Isolated from TNT - Contaminated Soil</i> , 47 BIORESOURCE TECHNOLOGY 19 (1994). |
| | A73 | Boopathy, R., et al., <i>Biotransformation of 2, 4, 6 - Trinitrotoluene (TNT) By Co-Metabolism With Various Co-Substrates: A Laboratory-Scale Study</i> , 47 BIORESOURCE TECHNOLOGY 205 (1994). |
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| | A77 | Doyle, Richard C., et al., <i>Effect of Dairy Manure and Sewage Sludge on [¹⁴C]-Pesticide Degradation in Soil</i> , 26(4) J. AGRIC. FOOD CHEM. 987-989 (1978). |
| | A78 | Federle, Thomas W., <i>Mineralization of Monosubstituted Aromatic Compounds in Unsaturated and Saturated Subsurface Soils</i> , 34 CAN. J. MICROBIOL. 1037-1042 (1988). |
| | A79 | Frøslie, Arne, et al., <i>Ruminal Metabolism of DNOC and DNBP</i> , 11 ACTA VET. SCAND: 114-132 (1970). |
| | A80 | Gorontzy, Thomas, et al., <i>Microbial Transformation of Nitroaromatic Compounds Under Anaerobic Conditions</i> , 139 J. GEN. MICROBIOL. 1331-1336 (1993). |

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Form PTO 2449ion
REMADEY Farrell G. Badger et al.

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Art Unit: 3641

Other Documents ... continued

Examiner
Initial*

- | | | |
|----|-----|---|
| JB | A81 | Goszczynski, Stefan, et al., <i>Isotopically Labelled Compounds for Hazardous Waste Site Cleanup Investigations: Part I. Synthesis of [phenyl-U-.sup.14 C] labelled 2,4-dinitro-6-sec-butylphenol (dinoceb) and [phenyl-U-.sup.14 C] labelled 4-n-propylphenol</i> , 24(1) J. LABELLED COMPOUNDS AND RADIOPHARMACEUTICALS 35-42 (1991). |
| | A82 | Gottschalk, Gerhard, <i>BACTERIAL METABOLISM</i> 157-162 (2d ed. 1986). |
| | A83 | Heinis, F.S., et al., <i>Verwijdering van Bodemverontreiniging</i> , 39 PT/CIVIELE TECHNIEK 7-15 (1984). |
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| JB | A89 | Kaplan, David L., <i>Biotechnology and Bioremediation for Organic Energetic Compounds</i> , ORGANIC ENERGETIC COMPOUNDS, 373-416 (Marinkas, Paul L. ed. 1994). |

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Form PTO-144
on
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Other Documents . . . continued

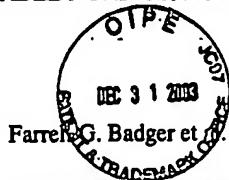
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<u>Initial*</u> | | |
|-----------------------------|-----|---|
| JB | A90 | Knezovich, John P., et al., <i>Chemical and Biological Systems for Regenerating Activated Carbon Contaminated with High Explosives</i> , paper submitted to PROCEEDINGS DEMIN '94 in Luxembourg, Luxembourg (November 14-16, 1994). |
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| | A93 | McBride, Kevin E., et al., <i>Metabolism of the herbicide bromoxynil by Klebsiella pneumoniae subsp. ozaenae</i> , 52(2) APPL. ENVIRON. MICROBIOL. 325-330 (Aug. 1986). |
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| | A96 | Parris, George E., <i>Environmental and Metabolic Transformations of Primary Aromatic Amines and Related Compounds</i> , 76 RESIDUE REVIEWS 1-30 (1980). |
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continued . . .

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Other Documents . . . continuedExaminer
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| JB | A99 | Rafii, Fatemah, et al., <i>Reduction of Nitroaromatic Compounds by Anaerobic Bacteria Isolated From the Human Gastrointestinal Tract</i> , 57 APPL. ENVIRON. MICROBIOL. 962-968 (1991). |
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| A101 | | Schink, Bernard, <i>Principles and Limits of Anaerobic Degradation: Environmental and Technological Aspects</i> , in BIOLOGY OF ANAEROBIC MICROORGANISMS 771-846 (Zinder ed. 1988). |
| A102 | | Shieh, Chih-Shin, <i>Physical and Chemical Behavior of Stabilized Sewage Blocks in Seawater</i> , 23(1) ENVIRON. SCI. TECHNOL. 121-125 (1989). |
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| A106 | | Spain, Jim C., et al., <i>Enzymatic Oxidation of p-Nitrophenol</i> , 88(2) BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS 634-641 (1979). |
| JB | A107 | Stevens, Todd O., <i>Biodegradation of Dinoseb (2-sec-Butyl-4,6-Dinitrophenol) and Bioremediation of Dinoseb-Contaminated Soils</i> (Nov. 1989). |

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| JB | A108 | Stevens, Todd O., et al., <i>Biodegradation of Dinoseb (2-sec-Butyl-4,6-Dinitrophenol) in Several Idaho Soils with Various Dinoseb Exposure Histories</i> , 56(1) APPL. ENV. MICROBIO. 133-139 (Jan. 1990). |
| | A109 | Stevens, Todd O., et al., <i>Selection and Isolation of Bacteria Capable of Degrading Dinoseb (2-sec-butyl-4,6-dinitrophenol)</i> , 2 BIODEGRADATION 1-13 (1991). |
| | A110 | Tiedje, James M., et al., <i>The Ecology of an Anaerobic Dechlorinating Consortium</i> , in ENVIRONMENTAL BIOTECHNOLOGY 3-14 (Omenn ed. 1988). |
| | A111 | Tratnyek, Paul G., <i>Abiotic Reduction of Nitro Aromatic Pesticides in Anaerobic Laboratory Systems Designed to Model Dissolved Organic Matter</i> (Aug. 1987). |
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| | A114 | Vlassak, K., et al., <i>Dinoseb as a Specific Inhibitor of Nitrogen Fixation in Soil</i> , 8 SOIL BIOL. BIOCHEM. 91-93 (1976). |
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| | A116 | Yang, Yan-Xi, et al., <i>Bacteria Transforming 2,4,6-trinitrotoluene (α-TNT) and Their Application</i> , in 92 CHEMICAL ABSTRACTS 375, Abs. No. 134719 (1980). |
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| JB | A118 | Ziegler, K., et al., <i>Studies on the Anaerobic Degradation of Benzoic Acid and 2-Aminobenzoic Acid by a Denitrifying Pseudomonas Strain</i> , 149 ARCH. MICROBIOL. 62-69 (1987). |

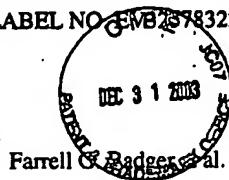
continued . . .

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Form PTO-1449ion



Farrell G. Badger, et al.

For: EXPLOSIVE DEVICE WITH ACCELERATED
BIOREMEDIATION CAPACITY

Divisional of:

Serial No.: 10/039,137
 Of: Farrell G. Badger, et al.
 Filing Date: December 31, 2001
 Examiner: Peter A. Nelson
 Art Unit: 3641

Other Documents ... continuedExaminer
Initial*

JB A119 Ziegler, Klaus, et al., *Activation of Aromatic Acids and Aerobic 2-Aminobenzoate Metabolism in a Denitrifying Pseudomonas Strain*, 151 ARCH. MICROBIOL. 171-176 (1989).

References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

Examiner:	/James Bergin/	Date Considered:	10/13/2006
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